

ROUTE CABLES ALONG TRAIL ABOVE STAIR 1. SECURE WITH CABLE CLAMPS TO CAVE WALL, TIGHT TO THE TRAIL/WALL INTERFACE.

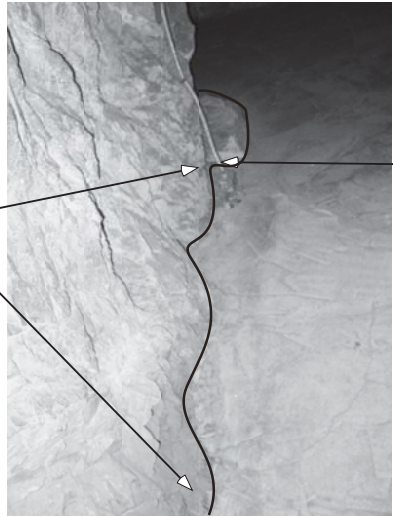


PHOTO E 1.2-1
POWER PATH ABOVE STAIR #1

SAFETY OFF AND DEMOLISH EXISTING CONDUIT AND LIGHT FIXTURE SUPPLY BACK TO JUNCTION BOX OR CUT OFF FLUSH WITH TRAIL SURFACE AFTER THE NEW RAILING HAS BEEN INSTALLED.
(SAME FIXTURE IN BOTH PICTURES)

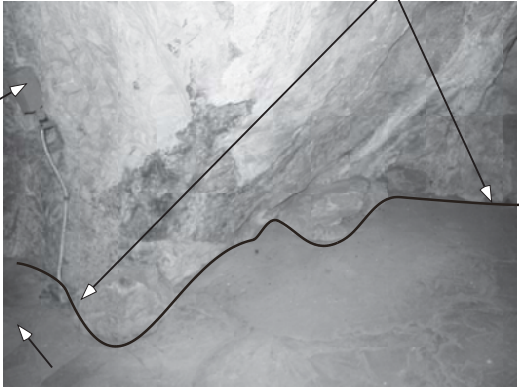


PHOTO E 1.2-2
POWER PATH ABOVE STAIR #1

ROUTE CABLES ALONG TRAIL ABOVE STAIR 1. SECURE WITH CABLE CLAMPS TO CAVE WALL, TIGHT TO THE TRAIL/WALL INTERFACE.

ROUTE CABLES ALONG TRAIL ABOVE STAIR 1. SECURE WITH CABLE CLAMPS TO CONCRETE WALL, TIGHT TO THE TRAIL/WALL INTERFACE.

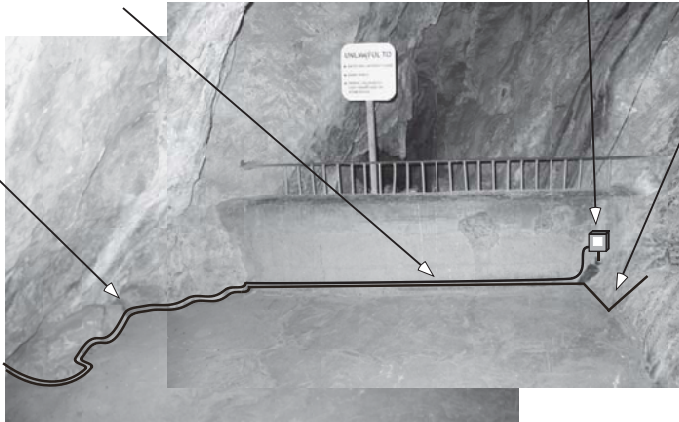


PHOTO E 1.2-3
POWER PATH ABOVE STAIR #1 AND LEAKY FEEDER
COMMUNICATIONS CABLE EXTENSION

ROUTE THE CABLE ALONG THE FLOOR AND THENCE UP VERTICALLY TO THE CABINET 4 LOCATION.



PHOTO E 1.2-4
LOCATION OF CABINET 4

EXISTING LEAKY FEEDER COMMUNICATIONS CABLE END BOX
FURNISH AND INSTALL CABINET 4 WITH UPS, RELAY PANEL, AND LOAD CENTER AS INDICATED.
MOUNT CABINET ON THE CAVE/ CONCRETE FLOOR

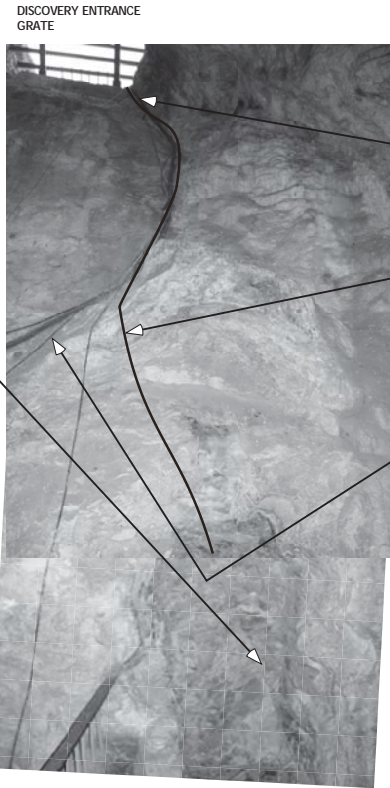


PHOTO E 1.2-5
LOCATION OF NEW CABINET 4

FURNISH AND INSTALL ONE NEW 100 AMP TEK CABLE FEEDER FROM A NEW JUNCTION BOX OUTSIDE OF THE CAVE. (SEE PHOTO 6 THIS SHEET) DOWN TO CABINET 4.

SURFACE MOUNT THE CABLE(S) ON THE CAVE WALL AND SECURE WITH EPOXY GROUTED CLAMPS. MINIMIZE VISUAL APPEARANCE AS MUCH AS POSSIBLE.

PRECLUDE DAMAGE TO THE EXISTING FEEDER CABLE, TELEPHONE CABLE, AND SEISMIC COMMUNICATION CABLES.

MOUNT SWITCH SW-1 CAB 4 SURFACE MOUNTED ON THE EXISTING CAVE WALL APPROXIMATELY IN THIS LOCATION.

NOTE ENTRANCE GATE AROUND CORNER.

SUPPLY FURNISH AND INSTALL SW1 CONTROL CABLE FROM THE FLOOR AND THEN LOOSE LAY JOINING WITH BRANCH CIRCUIT R2 (TEK CABLE IN THIS SEGMENT) ALONG FLOOR AGAINST THE CAVE WALL; COVER WITH LOOSE ROCK RUBBLE.



PHOTO E 1.2-7
LOCATION OF NEW SWITCH SW-1

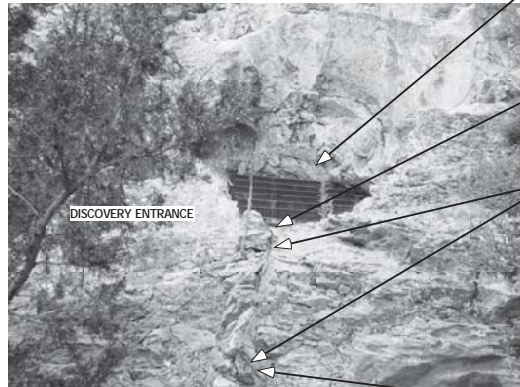


PHOTO E 1.2-6
LOCATION OF NEW FEEDER TAP

SAME GRATE AS AT TOP OF PHOTO 5 THIS SHEET

FURNISH AND INSTALL A NEW NEMA 3R JUNCTION BOX WITH A POWER CONNECTION BLOCK TO TIE THE NEW POWER FEEDER TO THE EXISTING POWER FEEDER. LOCATE THE JUNCTION BOX JUST OUTSIDE THE GRATE.

NOTE THAT THE EXISTING POWER FEEDER HAS BEEN CONCEALED UNDER SOME ROCKS; THIS CONCEALMENT SHOULD NOT BE DISTURBED.

ROUTE THE NEW POWER FEEDER INTO THE GRATE AND DOWN TO CABINET 4, AS INDICATED IN PHOTO 5

THIS EXISTING POWER FEEDER RUNS DOWN THE HILL TO THE METER POLE

DESIGN INTENT OF FEEDER INTERCONNECTIONS

THE INTERCONNECTION OF THE NEW SYSTEM AND THE OLD SYSTEM AT THIS POINT WILL PROVIDE A LOOP FEED CAPABILITY THROUGH OUT THE CAVE IN THE EVENT THAT THE NEW FAILS AT SOME LOCATION.

THE PARK MAINTENANCE PERSON CAN SWITCH THE IN AND OUT BREAKERS IN EACH OF THE CABINET LOAD CENTERS TO ISOLATE THE FAILED SECTION AND THUS SERVE A PORTION OF THE CAVE FROM ABOVE AND A PORTION FROM BELOW UNTIL A CONTRACTOR CAN BE CONTRACTED TO REMEDY THE PROBLEM DURING NORMAL WORKING HOURS. (CABLE FAILURES ALMOST ALWAYS CAN BE GUARANTEED TO FAIL AT THE MOST INCONVENIENT TIMES.)

UPON COMPLETION OF THIS PROJECT THE EXISTING FEEDER WITHIN THE CAVE WILL BE DISCONNECTED FROM THE NEW JUNCTION LEAVING THE EXISTING SECTION FROM THE METER POLE TO THE JUNCTION BOX LIVE AS A BACKUP.

INSTALL SW1 CONTROL CABLE AND BRANCH CIRCUIT R2 (TEK CABLE IN THIS SEGMENT) ALONG FLOOR AGAINST THE CAVE WALL; COVER WITH LOOSE ROCK RUBBLE.

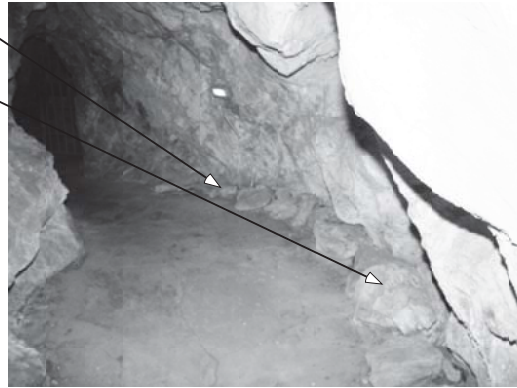


PHOTO E 1.2-8
LOCATION OF NEW BRANCH CIRCUIT R2 + SW-1
CONTROL CABLE

SAW CUT THE EXISTING CONCRETE FLOOR IN ACCORDANCE WITH NOTES ON E1.0 IN ORDER TO CROSS THE EXISTING PATHWAY WITH BRANCH CIRCUIT R2 AND SW-1 CONTROL CABLE; EXISTING LEAKY FEEDER COMMUNICATIONS CABLE.

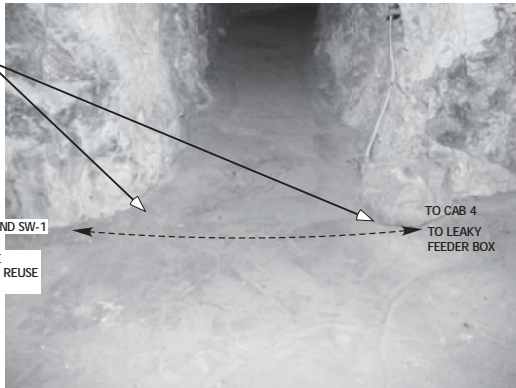


PHOTO E 1.2-9
LOCATION OF NEW TRAIL CROSSING

PASS GATE TIGHT TO WALL AT FLOOR

CABLE TIGHT TO CAVERN WALL AT FLOOR; COVER WITH LOOSE RUBBLE

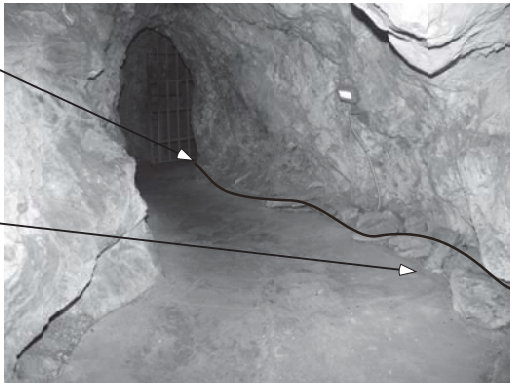


PHOTO E 1.2-10
CIRCUIT R2, SW-1; EXISTING LEAKY FEEDER
COMMUNICATIONS CABLE

CABLE FASTENED TO PIT SIDE OF CONCRETE WALL BELOW RAILING; SECURE WITH CLAMPS



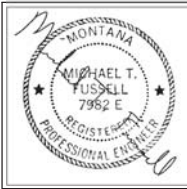
PHOTO E 1.2-11
EXISTING LEAKY FEEDER COMMUNICATIONS
CABLE; BELOW RAIL AT PIGGY PIT

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E 1.2

LIGHT FIXTURE(S) THIS SHEET
FIXTURE 'B' IS AN EXISTING COMPOSITE BULLET WITH VARIOUS LED PAR LAMPS
FIXTURE 'C' IS A NEW TUNABLE WHITE FIXTURE (SEE CATALOG SHEETS)
FIXTURE 'F' IS A NEW WALL MOUNTED LED FIXTURE (SEE CATALOG SHEETS)

GENERAL NOTES:

- A. AT ANY LOCATION WHERE ELECTRICAL BRANCH CIRCUIT OR SWITCH CABLES ARE TO BE LOOSE LAID (NOT COVERED WITH RUBBLE), USE FLEXIBLE CORD, HARD SERVICE, WET LOCATION TYPE SOOW.
- B. AT ANY LOCATION WHERE ELECTRICAL BRANCH CIRCUIT OR SWITCH CABLES ARE TO BE COVERED WITH RUBBLE, USE CONDUCTORS IN PLASTIC COATED FLEXIBLE CONDUIT, OR PLASTIC COATED MC CABLE, OR TEK CABLE AT CONTRACTOR'S OPTION.
- C. AT ANY LOCATION WHERE ELECTRICAL BRANCH CIRCUIT OR SWITCH CABLES ARE TO BE FASTENED TO THE CAVERN WALL, FASTENED TO A CONCRETE WALL, OR FASTENED TO THE SIDE OF OR UNDERNEATH CONCRETE STEPS, USE PLASTIC COATED MC CABLE OR TEK CABLE AT THE CONTRACTOR'S OPTION.
- D. USE JUNCTION BOX AT ANY TRANSITION BETWEEN CORD AND CABLE; CONCEAL J-BOX FROM TRAIL VIEW BEHIND NATURAL CAVERN FORMATION OR UNDER RUBBLE.
- E. POWER FEEDER CABLE TO BE TEK CABLE THROUGHOUT THIS PHASE OF PROJECT.
- F. ROUTE POWER FEEDER CABLE TO FOLLOW ROUTE OF EXISTING LEAKY FEEDER COMMUNICATIONS CABLE.

SWITCH MOUNTING NOTES FOR THIS SHEET

1. MOUNT SWITCHES SW1-CAB 2, SW2-CAB 3 AND SW3-CAB 3 ON THE CORRESPONDING RAILINGS.
2. MOUNT SWITCH SW3-CAB 3 SECURED TO AN EXISTING ROCK IN THE SAME AREA AS THE EXISTING SWITCHES AND EXISTING PANEL.
3. MOUNT SWITCHES SW2-CAB 4 AND SW2-CAB 4 IN A INDIVIDUAL BOXES AND LOCATED IN THE SAME CAVERN WALL HOLE AS THE EXISTING SWITCHES.

THIS CROSSING CONTAINS THE FOLLOWING ITEMS:
NEW MAIN POWER FEEDER(S), EXISTING LEAKY FEEDER COMMUNICATIONS CABLE, NEW BRANCH CIRCUITS R1,R2, AND R3
NEW SWITCH LEADS SW2 AND SW3

CABLES FOLLOW EXISTING LEAKY FEEDER CABLE FOR FULL RUN OF STAIR 06.

LOOSE LAID BEHIND FORMATIONS

EXIT FROM BELOW FORMATION TO ABOVE FORMATION.

ROUTE UNDER FORMATION.

ROUTE UNDER STAIRS, LOOSE LAID.

THIS CROSSING CONTAINS THE FOLLOWING ITEMS:
NEW MAIN POWER FEEDER(S) LEAKY FEEDER COMMUNICATIONS CABLE (EXISTING); AND NEW BRANCH CIRCUIT R3 SWITCH LEAD SW3-CAB 4, SW1- CAB 4, AND SW3-CAB 3

EXISTING RAILING, NON-ILLUMINATED, INSTALLED NEW DURING PHASE ONE. NO ELECTRICAL REQUIREMENT IN PHASE TWO.

ROUTE THROUGH EXISTING HOLE IN FORMATION, CORE DRILLED FOR LEAKY FEEDER CABLE INSTALLED DURING PHASE ONE. SEE PHOTOS E2.1-6,7.

ROUTE AROUND FORMATION THIS AREA; FOLLOW ROUTE OF EXISTING LEAKY FEEDER CABLE

ROUTE UNDER FORMATION IN THIS AREA.

ROUTE UNDER STAIRS, LOOSE LAID.

ROUTE UNDER FORMATION TO ABOVE FORMATION.

ROUTE UNDER STAIRS, LOOSE LAID.

ROUTE UNDER FORMATION TO ABOVE FORMATION.

ROUTE UNDER STAIRS, LOOSE LAID.

ROUTE UNDER FORMATION TO ABOVE FORMATION.

ROUTE UNDER STAIRS, LOOSE LAID.

ROUTE UNDER FORMATION TO ABOVE FORMATION.

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ROUTE UNDER STAIRS, LOOSE LAID.

ROUTE UNDER FORMATION TO ABOVE FORMATION.

ROUTE UNDER STAIRS, LOOSE LAID.

DIRECTION OF TRAVEL

SEE SHEET E1.0 FOR CONTINUATION OF CORD AND CABLE ROUTING.

CONNECTS TO SHEET E1.0

CONNECTS TO SHEET E3.0

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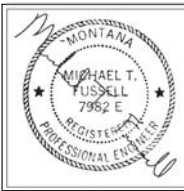
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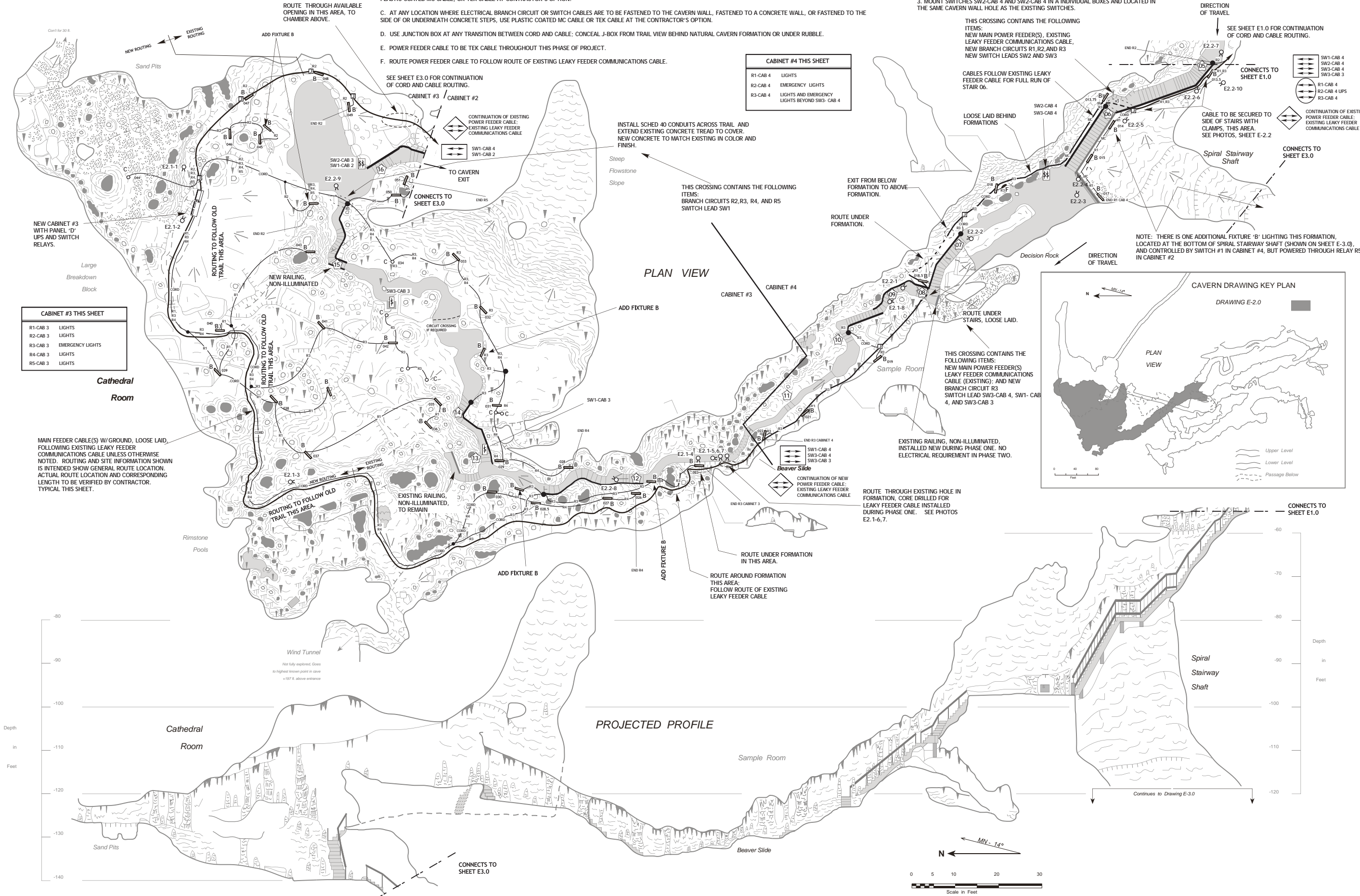
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E 2.0

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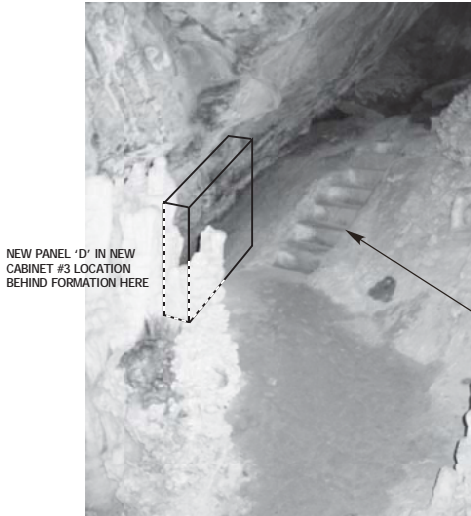


PHOTO E 2.1-1
POWER CABLE AND CORDS FOLLOW EXISTING
LEAKY FEEDER COMMUNICATIONS CABLE PATH
AND NEW PANEL LOCATION

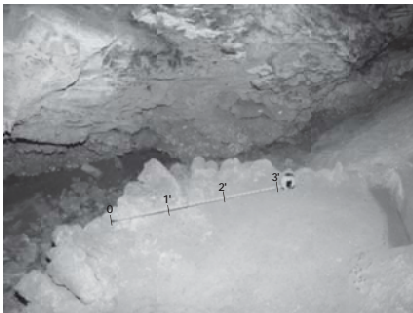


PHOTO E 2.1-9
CABINET 3 LOCATION SCALE

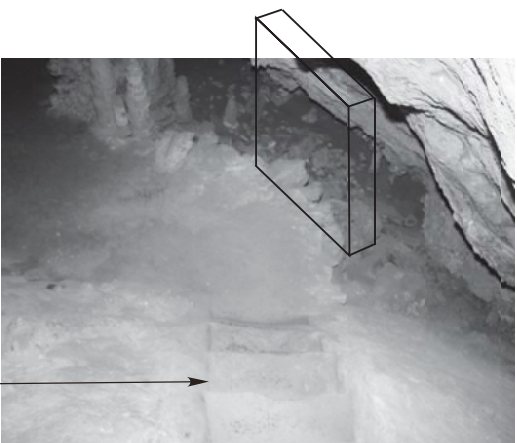


PHOTO E 2.1-2
POWER CABLE AND CORDS FOLLOW EXISTING
LEAKY FEEDER COMMUNICATIONS CABLE PATH AND
NEW PANEL LOCATION

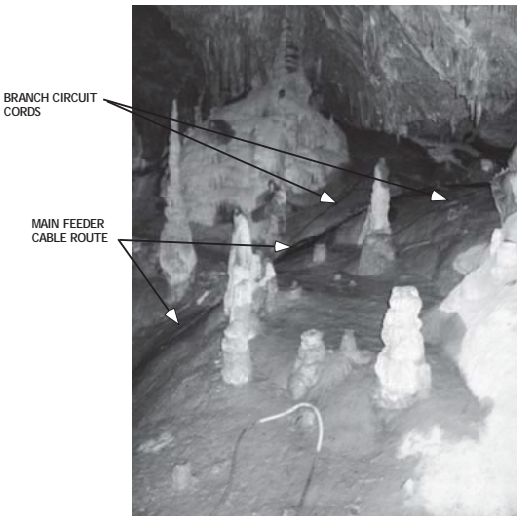


PHOTO E 2.1-3
POWER CABLE AND CORDS FOLLOW EXISTING
LEAKY FEEDER COMMUNICATIONS CABLE PATH,
AND
ORIGINAL FEEDER ROUTE

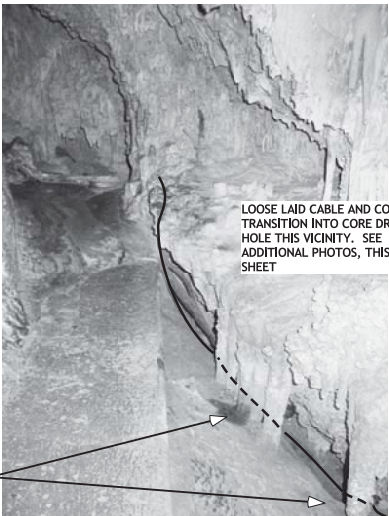


PHOTO E 2.1-4
POWER CABLE AND CORDS FOLLOW EXISTING
LEAKY FEEDER COMMUNICATIONS CABLE PATH
VICINITY BEAVER SLIDE

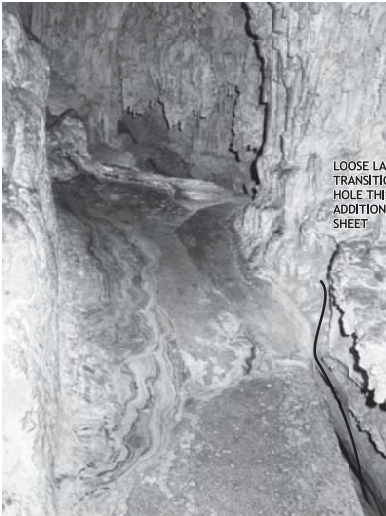


PHOTO E 2.1-5
POWER CABLE AND CORDS FOLLOW EXISTING LEAKY
FEEDER COMMUNICATIONS CABLE PATH VICINITY
BEAVER SLIDE



PHOTO E 2.1-6
POWER CABLE AND CORDS FOLLOW EXISTING LEAKY
FEEDER COMMUNICATIONS CABLE PATH VICINITY
BEAVER SLIDE

APPROXIMATE WIDTH OF
PASSAGEWAY AT THIS
POINT. MAN'S SHOE FOR
SIZE REFERENCE

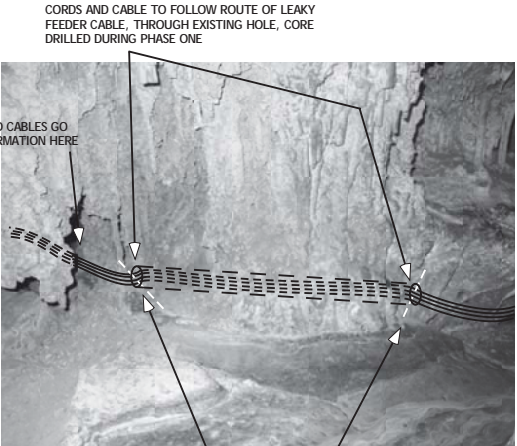


PHOTO E 2.1-7
POWER CABLE AND CORDS FOLLOW EXISTING LEAKY
FEEDER COMMUNICATIONS CABLE PATH VICINITY
BEAVER SLIDE

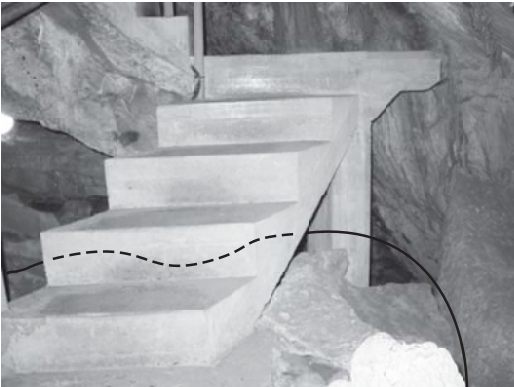
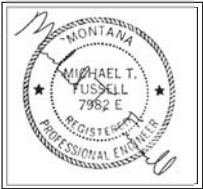


PHOTO E 2.1-8
POWER CABLE AND CORDS FOLLOW EXISTING
LEAKY FEEDER COMMUNICATIONS CABLE PATH
UNDER STAIR #8

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E 2.1